

REMARKS

Applicant respectfully requests that the above-identified application be reexamined.

Claims 1-16 are pending in this application. The Office Action mailed February 19, 2008 (hereinafter "Office Action"), rejected Claims 9-16 under 35 U.S.C. § 101 because the claimed invention is directed to non-statutory subject matter. Claims 1, 6-10, and 14-16 were rejected under 35 U.S.C. § 103(a) as being unpatentable in view of the teachings of U.S. Patent No. 6,925,631, issued to Golden (hereinafter "Golden"). Claims 2-5 and 11-13 were rejected under 35 U.S.C. § 103(a) as being unpatentable in view of the teachings of Golden, as applied to Claims 1, 6-7, 9-10, and 14-16, and further in view of the teachings of U.S. Patent No. 7,089,533, issued to Vosburgh (hereinafter "Vosburgh"). While applicants respectfully disagree, in order to advance the prosecution of the current application independent Claims 1 and 9 have been amended. Claims 2, 11, and 16 have been canceled. Withdrawn Claims 17-30 have been canceled without prejudice by the filing of a divisional application pursuing the subject matter of these claims.

Pursuant to 37 C.F.R. § 1.111 and for the reasons set forth below, applicant respectfully requests reconsideration and allowance of the pending claims. Prior to discussing in detail why applicant believes that all the claims in this application are allowable, a brief description of the disclosed subject matter and brief descriptions of the teachings of the cited and applied references are provided. The following descriptions of the disclosed subject matter and the cited and applied references are not provided to define the scope or interpretation of any of the claims of this application. Instead, these descriptions are provided solely to assist the United States Patent and Trademark Office in recognizing the differences between the pending claims and the cited references, and should not be construed as limiting on the disclosed subject matter.

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Disclosed Subject Matter

A system, method, and computer-accessible medium to facilitate parsing content from an XML document are provided. The system and method provide a parser and an agent to process XML events for XML elements from an event-based XML reader on behalf of the parser in accordance with a parsing map. In accordance with one aspect of the present invention, the parser comprises the parsing map and custom parsing code. The parsing map defines the XML elements of interest and further identifies the custom parsing code that corresponds to the defined XML elements. The custom parsing code contains the logic used to parse the content of the defined XML element. Parsing is based on a user-defined parsing function.

The agent receives the parsing map and returns to the parser the content of the XML elements defined in the parsing map via a communication channel. The agent automatically generates a state machine in accordance with the parsing map. The state machine is responsible for handling the events related to the XML elements defined in the parsing map, including verifying the structure and consistency of the elements, extracting the elements' attributes, if any, and collecting the elements' contents for return to the parser via the communications channel. The automatically generated state machine advantageously avoids the need for the user to construct his or her own state machine.

Summary of Golden (U.S. Patent No. 6,925,631)

Golden is purportedly directed towards a method performed by a computer system for processing an extensible markup language input stream using discrete software components mapped to tags contained in the input stream, comprising: parsing the input stream; and as a tag is parsed, invoking the software component mapped to it. Golden is also purportedly directed towards a computer system, comprising: (i) a processing unit and storage for processing programs; (ii) bindings representing a mapping between tags and discrete software components;

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(iii) a software engine comprising: a reader component that reads an extensible markup language input stream containing at least one tag; (iv) a parser component that parses the input stream; and (v) an execution component that, as a tag is parsed, invokes the software component mapped to the tag.

While Golden describes a method for processing an extensible markup language input stream using discrete software components mapped to tags contained in the input stream, Golden fails to teach, disclose, or suggest a parser and an agent that process XML events for XML elements from an event-based XML reader on behalf of the parser in accordance with a parsing map, as well as custom parsing code that contains the logic used to parse the content of the defined XML element, the parsing function being a member of a user class library, the parsing function containing a custom parsing code written by a user to customize the parsing of the content of XML elements, and the parsing agent automatically generating a parsing state machine in accordance with the XML element names defined in the parsing map.

Summary of Vosburgh (U.S. Patent No. 7,089,533)

Vosburgh is purportedly directed towards mapping operations between a markup language document and an object model executed in response to a request from a client application. The mapping operations include read, write, update, or delete operations. Mapping meta-data is used to map the markup language document to the object model. The mapping meta-data contains information as to how the markup language element maps to an attribute and/or a relationship of the object model.

Rejection of Claims 9-16 Under 35 U.S.C. § 101

As indicated above, Claims 9-16 were rejected under 35 U.S.C. § 101 because the claimed invention is directed to non-statutory subject matter. The Office Action interpreted the "communication channel" recited in Claim 9 as a software entity. Applicants have amended the

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preamble of Claim 9 to recite "A **computer** system for parsing XML data, the system comprising **a processor and a memory having computer-executable instructions which, when executed on the processor, generate . . .** a communication channel." (Emphasis added.)

Applicants respectfully submit that Claim 9, as amended, overcomes the 35 U.S.C. § 101 rejection and request that the rejection of Claims 9-16 on this grounds be withdrawn. In this regard, Claims 10 and 12-15 all depend from Claim 9. Claims 11 and 16 have been canceled. The preamble of Claims 10 and 12-15 has been amended to maintain language consistency.

Rejection of Claims 1, 6-10, and 14-16 Under 35 U.S.C. § 103(a)

As indicated above, Claims 1, 6-10, and 14-16 were rejected under 35 U.S.C. § 103(a) as being unpatentable in view of the teachings of Golden.

Claim 1, as amended, reads as follows:

A method for facilitating parsing XML data, the method comprising:

creating a user-defined parsing function, **the parsing function being a member of a user class library, the parsing function containing a custom parsing code written by a user to customize the parsing of the content of XML elements;**

mapping an XML element to the user-defined parsing function, **the mapping the XML element to the parsing function including creating a parsing map describing the XML element by XML element name and identifying the class member associated with the XML element;**

creating a parser to pre-parse XML source data, **the parser including a parsing agent, the parsing agent automatically generating a parsing state machine in accordance with the XML element names defined in the parsing map;**

exposing the mapping to **the parser** via a communication channel;
receiving an event for the **XML** element from an event-based reader of XML data containing the element;

pre-parsing the content of the **XML** element **from the XML source data** using **the parsing** state machine; and

sending the pre-parsed content of the **XML** element via the communication channel to the user-defined parsing function.

(Emphasis added.)

Applicants respectfully submit that Golden fails to teach, disclose, or suggest the recitations of Claim 1 marked in bold. As a result, Claim 1, as amended, is submitted to be allowable over Golden.

Specifically, applicants respectfully point out that nowhere does Golden describe, disclose, or suggest the "parsing agent automatically generating a parsing state machine in accordance with the XML element names defined in the parsing map" recitation of Claim 1. Further, applicants have been unable to determine how Golden's two or more XBF engines, when working in series, such that "one XBF engine generates an extensible markup language output stream which is used as an input stream for another XBF engine," referenced in the Office Action's Response to Arguments section, are related to pre-parsing the content of the element using a state machine automatically generated by the agent.

Claims 6-8 depend directly or indirectly from Claim 1 and are submitted to be allowable for at least the same reasons as Claim 1.

Claim 7 is submitted to be allowable for the additional reason set forth below. The Office Action references Col. 5, lines 44-62 of Golden with respect to Claim 7. Applicants have been unable to determine how, if at all, the

pre-parsing the content of the XML element includes at least one of verifying a structure of the XML element relative to other XML elements occurring in the XML data, verifying a consistency of the XML element, extracting an attribute of the XML element, and collecting a content of the XML element

recitation of Claim 7 reads on the "as a tag of the input stream is parsed, the software component mapped to it is invoked, for example, a software component for accessing a database. Information retrieved from the database may then be built into a document page" and "as a tag is parsed, a software component mapped to it is invoked" quotes of Golden referenced in the Office Action.

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Because Claim 9 has been amended with the subject matter of, and in a manner similar to, Claim 1, albeit in a different form, Claim 9 is submitted to be allowable over Golden for at least the same reason as Claim 1. Claims 10, 14, and 15 depend directly or indirectly from Claim 9 and are submitted to be allowable over Golden for at least the same reasons as Claim 9. Claim 16 has been canceled and its rejection has been thus rendered moot.

Rejection of Claims 2-5 and 11-13 Under 35 U.S.C. § 103(a)

As indicated above, Claims 2-5 and 11-13 were rejected under 35 U.S.C. § 103(a) as being unpatentable in view of Golden taken in view of Vosburgh. Because Claims 3-5 depend directly or indirectly from Claim 1 and because Vosburgh does not make up for the deficiencies of Golden as discussed in respect to Claim 1, Claims 3-5 are submitted to be allowable for at least the same reasons as Claim 1.

Because Claims 12 and 13 depend directly or indirectly from Claim 9 and because Vosburgh does not make up for the deficiencies of Golden as discussed in respect to Claim 9, Claims 12 and 13 are submitted to be allowable for at least the same reasons as Claim 9.

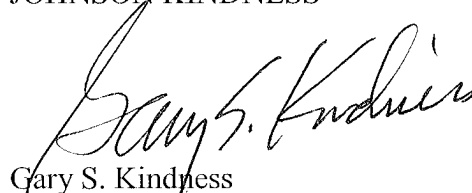
Since Claims 2 and 11 have been canceled, their rejection has been rendered moot.

CONCLUSION

In view of the foregoing amendments and remarks, applicant respectfully submits that all of the claims pending in this application are allowable. Early and favorable action allowing these claims and passing this application to issue is respectfully solicited. If any questions remain, the Examiner is invited to contact applicant's attorney at the number set forth below.

Respectfully submitted,

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